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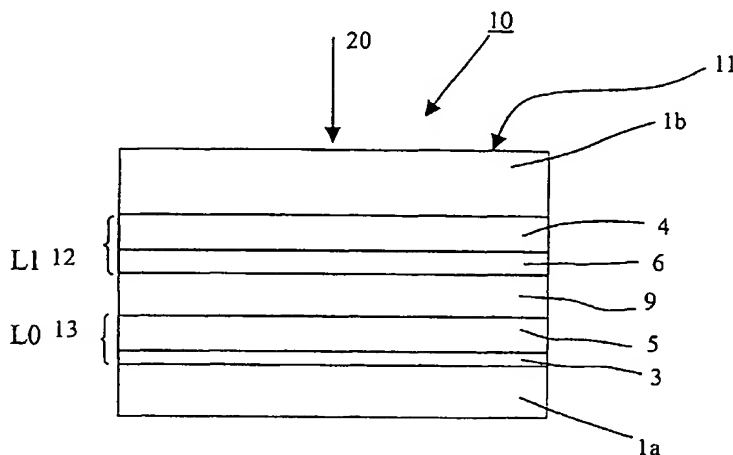
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[Continued on next page]

(54) Title: MULTI-STACK OPTICAL DATA STORAGE MEDIUM AND USE OF SUCH MEDIUM



(57) Abstract: The present invention relates to a multi-stack optical data storage medium (10). The medium comprises a first substrate (1a) with present on a side thereof a first recording stack (13) named  $L_0$ , a second substrate (1b) with present on a side thereof a second recording stack (12) named  $L_1$  comprising a recordable type  $L_1$  recording layer (4) having a thickness  $t_{RL1}$  and a complex refractive index  $n_{L1} - i \cdot k_{L1}$  at a wavelength  $\lambda$ . A second reflective layer (6) is present adjacent the  $L_1$  recording layer (4) at a side most remote from a radiation beam (20) entrance face (11) of the medium. The second recording stack  $L_1$  (12) is present at a position closer to the entrance face (11) than the  $L_0$  recording stack (13). A radiation beam transparent spacer layer (9) is sandwiched between the recording stacks (12, 13). In order to achieve compatibility with the DVD-9 ROM standard as far as reflection levels are concerned, the second reflective layer (6) mainly comprises the metal Cu and has a thickness  $t_{MLR}$  selected from the range of 8 - 20 nm and the thickness  $t_{RL1}$  and  $k_{L1}$  of the recordable  $L_1$  recording layer (4) fulfils the formula  $t_{RL1} \cdot k_{L1} \leq 8$  nm.

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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/005350 A1 (YAMADA NOBORU ET AL) 28 June 2001 (2001-06-28)	1
Y	paragraphs '0033!-'0047! paragraphs '0065!,'0066!; figure 1	2-7
Y	EP 1 189 218 A (MITSUI CHEMICALS INC) 20 March 2002 (2002-03-20)	2-7
	paragraphs '0012!-'0034!	
X	EP 1 187 119 A (MATSUSHITA ELECTRIC IND CO LTD) 13 March 2002 (2002-03-13)	1
	paragraphs '0052!-'0081!; figure 1	
X	EP 1 189 216 A (MATSUSHITA ELECTRIC IND CO LTD) 20 March 2002 (2002-03-20)	1
	paragraphs '0030!-'0051!	
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